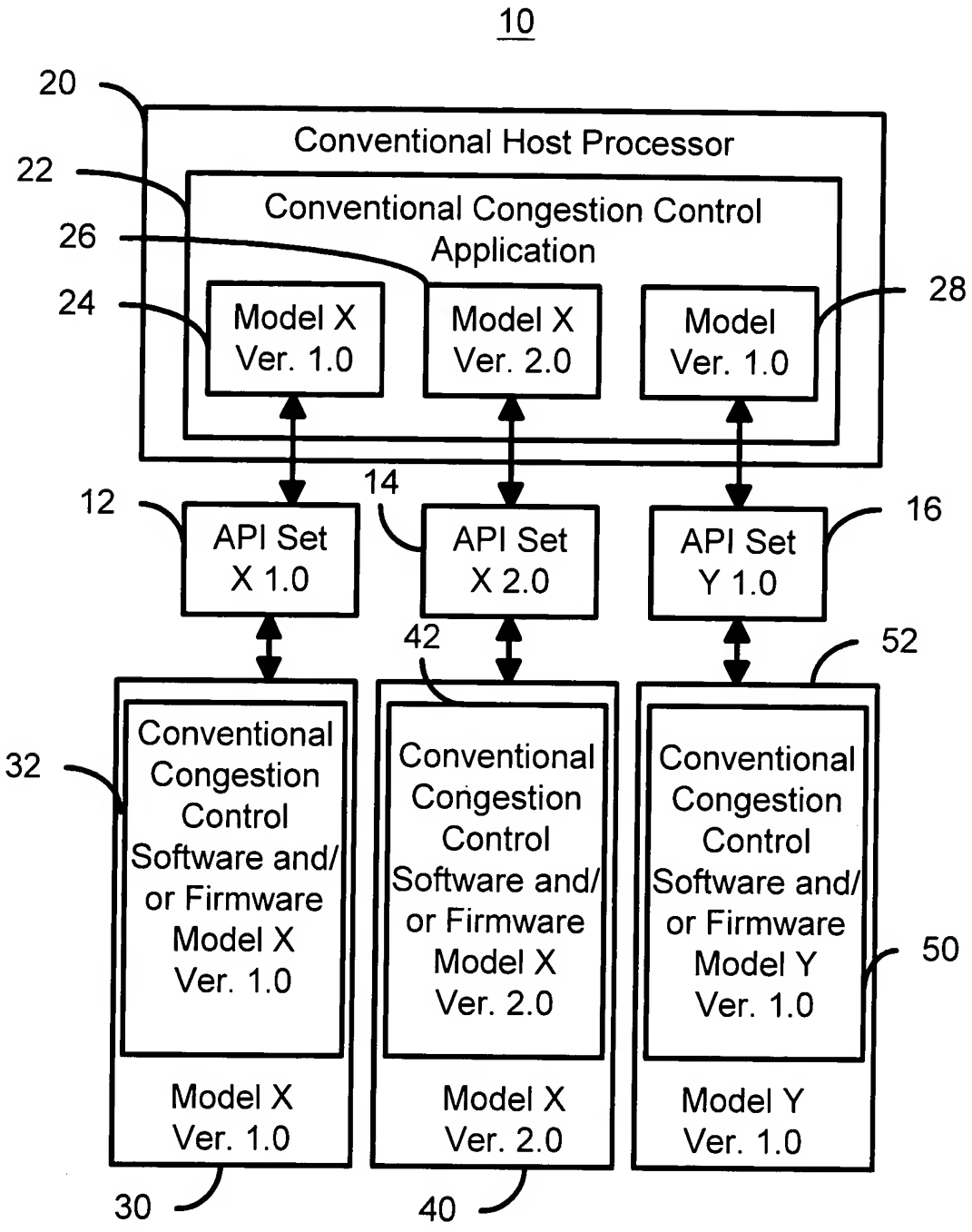

Prior Art
Figure 1

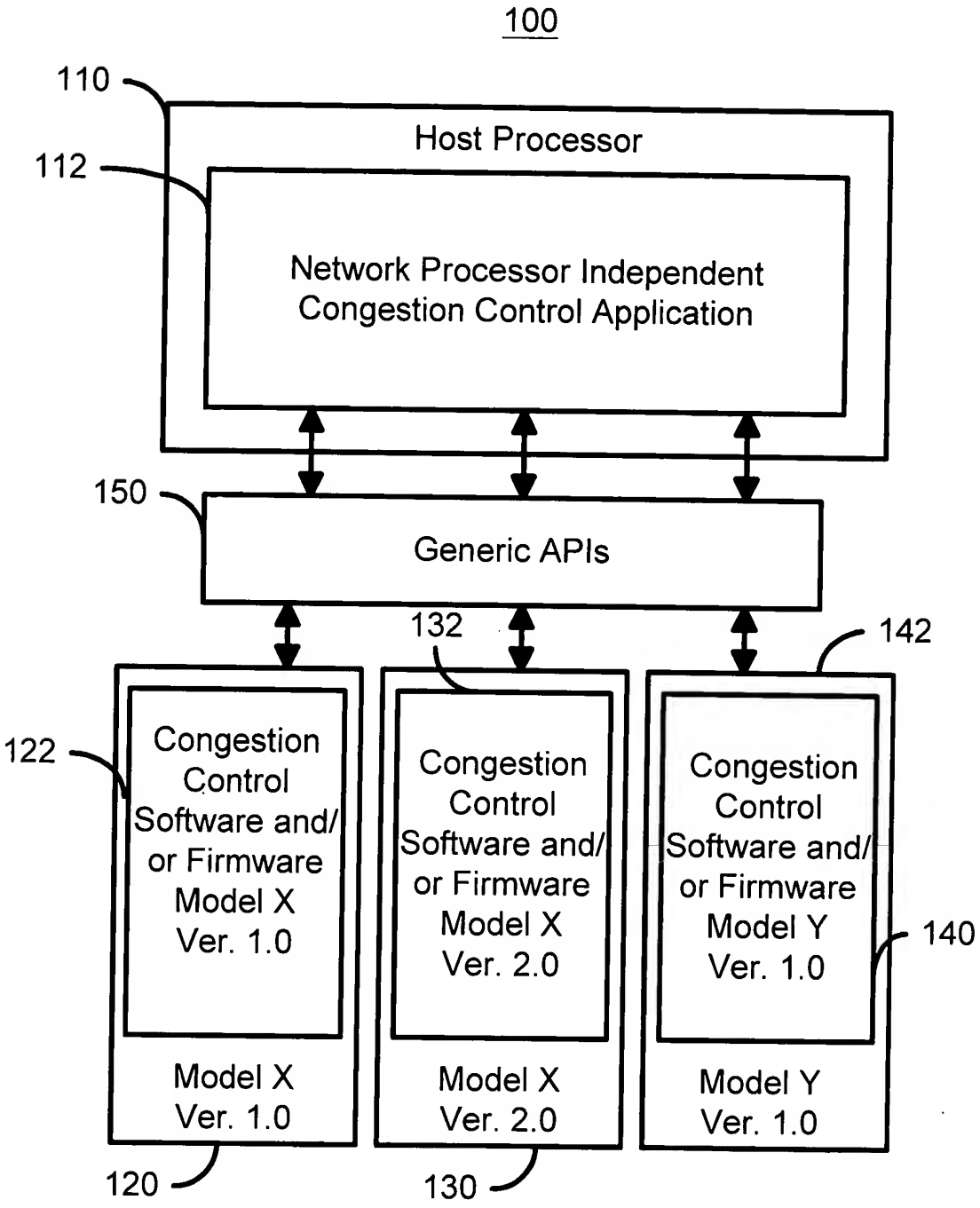
100
110
Host Processor
112
Network Processor Independent Congestion Control Application
150
Generic APIs
132
142
122
Congestion Control Software and/ or Firmware Model X Ver. 1.0
Congestion Control Software and/ or Firmware Model X Ver. 2.0
Congestion Control Software and/ or Firmware Model Y Ver. 1.0
140
Model X Ver. 1.0
Model X Ver. 2.0
Model Y Ver. 1.0
120
130

Figure 2

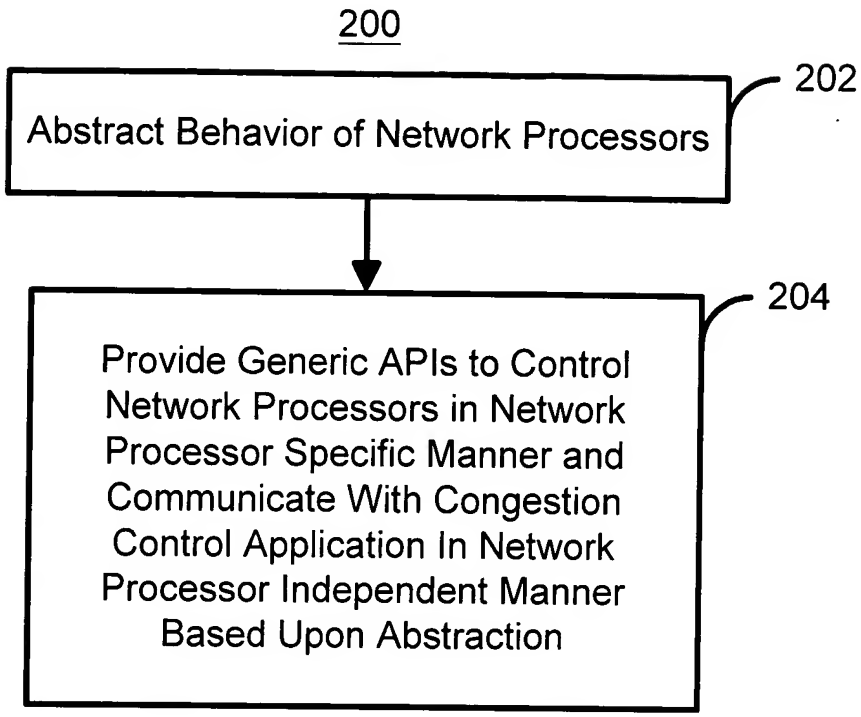
200
Abstract Behavior of Network Processors
202
Provide Generic APIs to Control Network Processors in Network Processor Specific Manner and Communicate With Congestion Control Application In Network Processor Independent Manner Based Upon Abstraction
204

Figure 3

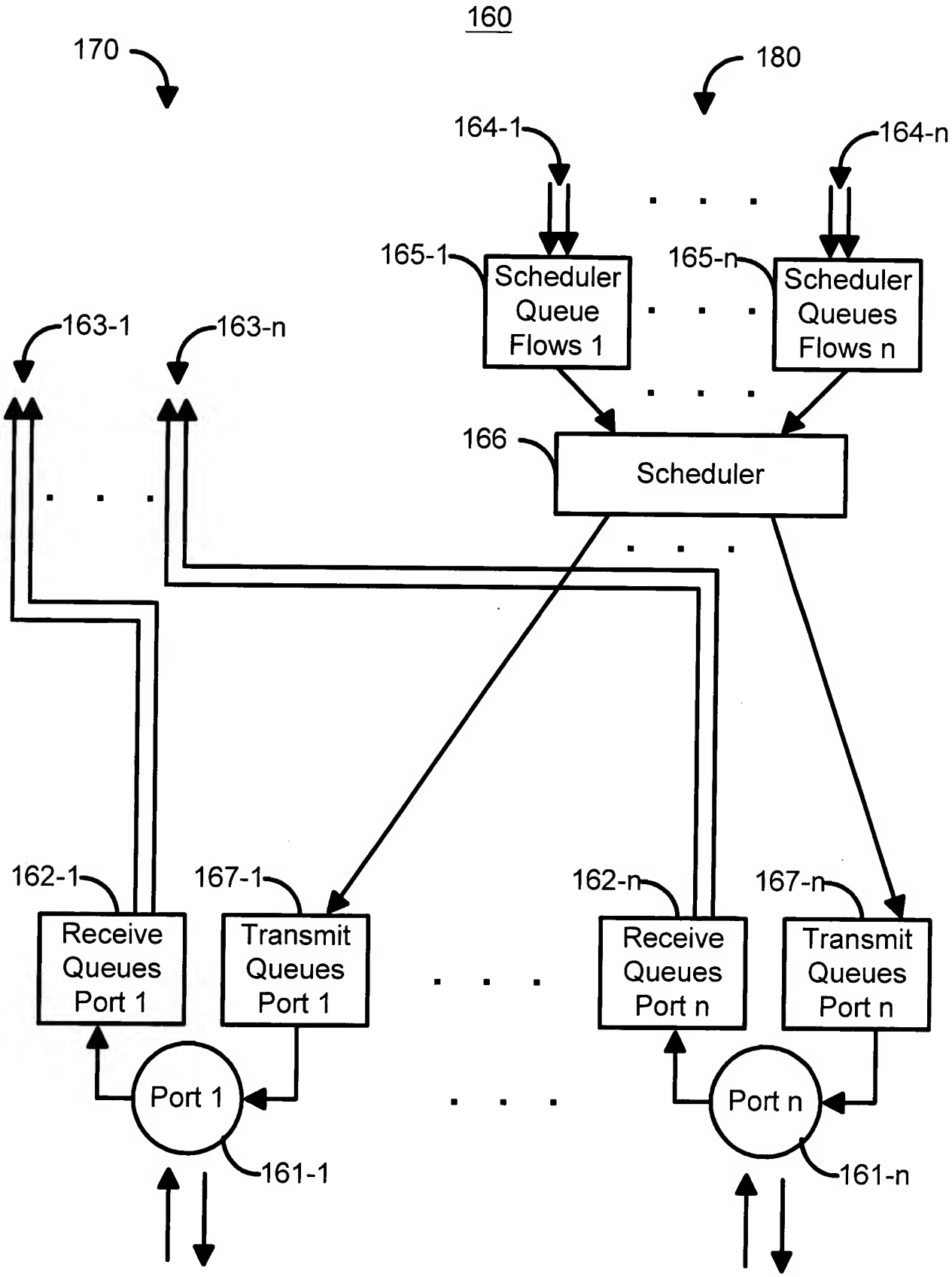
160
170
180
164-1
164-n
165-1
165-n
Scheduler Queue Flows 1
Scheduler Queues Flows n
163-1
163-n
166
Scheduler
162-1
167-1
162-n
167-n
Receive Queues Port 1
Transmit Queues Port 1
Receive Queues Port n
Transmit Queues Port n
Port 1
Port n
161-1
161-n

Figure 4

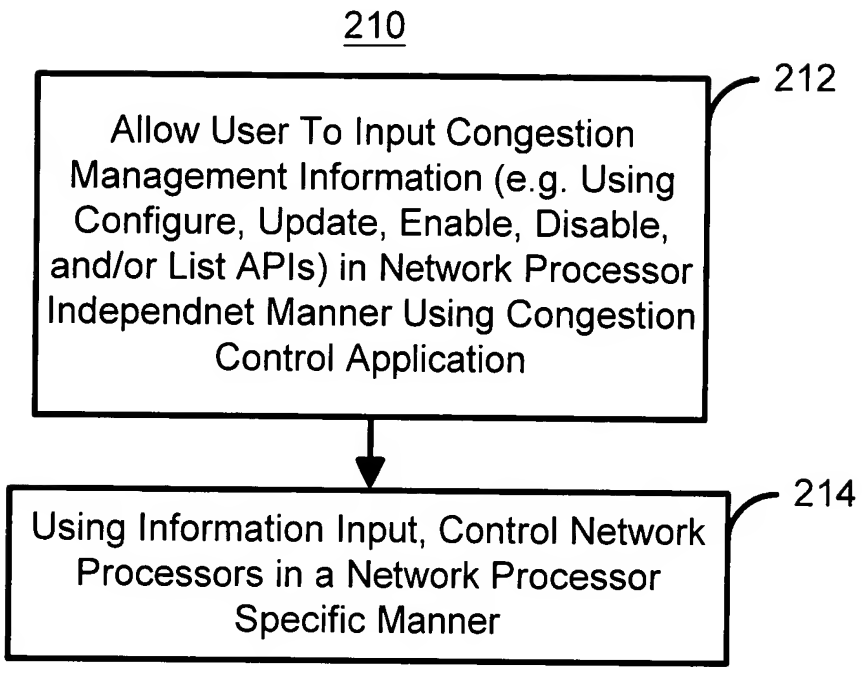
210
212
Allow User To Input Congestion Management Information (e.g. Using Configure, Update, Enable, Disable, and/or List APIs) in Network Processor Independnet Manner Using Congestion Control Application
214
Using Information Input, Control Network Processors in a Network Processor Specific Manner

Figure 5